



# State of Utah

DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

Norman H. Bangarter

Governor

Dee C. Hansen

Executive Director

Dianne R. Nielson, Ph.D.

Division Director

355 West North Temple

3 Triad Center, Suite 350

Salt Lake City, Utah 84180-1203

801-538-5340

April 17, 1992

Mark Lindsey, Secretary  
Native Asphalt Company  
136 E. South Temple  
Salt Lake City, UT 84111

Dear Mr. Lindsey:

Re: Water Quality Degradation (March 16, 1992 Response), Native Asphalt Company, Cameron #1, S/047/036, Uintah County, Utah

The details of your proposed action to mitigate the water degradation situation at the mine site, as described in your "fax" letter of March 16, 1992, are unclear. The Division has several questions regarding the proposal which you will need to respond to. What impacts will removal ("cleaning") the present dam area have on the "riparian area" at the dam? What are the rational/calculations and assumptions made in the selection of the culvert and diversion ditch sizes? What are the drainage area parameters and design storm/discharge (cfs) parameters? Will water be impounding behind the floodgate?

Please provide a schematic of the proposal with detail sections of the "cleaned" dam area, the lined diversion ditch, the floodgate to corrugated pipe transition, the floodgate (?) to PVC pipe transition and the PVC pipe discharge. Please provide an additional drawing of the proposed project which includes the entire proposal, surface contours, and mine operations.

After this information has been received by the Division, we will be able to evaluate your proposal. The Division is also interested in the status of the planned staking and land survey which was to be coordinated by April 1, 1992. Please provide information regarding the outcome of this survey.

Thank you for your cooperation in resolution of this matter. If you have any questions in this regard please contact me.

Sincerely,

Anthony A. Gallegos

jb

cc: Kathy Trott, Army Corps of Engineers

TELECOPIER COVER LETTER  
THE NATIVE ASPHALT COMPANY  
1750 UNIVERSITY CLUB BUILDING  
SALT LAKE CITY, UTAH 84111

5/047/036

3-16-92

DATE: 3-16-92

PLEASE DELIVER THE FOLLOWING PAGES TO:

NAME: Wayne Hedberg

LOCATION: DOGM

FROM: M. Lindsey

TOTAL NUMBER OF PAGES 4 INCLUDING COVER SHEET

IF YOU DO NOT RECEIVE ALL THE PAGES, PLEASE CALL BACK AS SOON AS  
POSSIBLE, GAY ROKICH AT 801-532-7510

TRANSMITTING FROM: 801-532-7519

TELECOPIER OPERATOR: \_\_\_\_\_

MESSAGE:

I'll send hard copies  
in the mail today

Mark



## THE NATIVE ASPHALT COMPANY

136 East South Temple  
University Club Building, Suite 1750  
Salt Lake City, Utah 84111  
(801) 532-7510

3-16-92

D. Wayne Hedberg  
Division of Oil Gas and Mining  
355 West North Temple  
3 Triad Center, Suite 350  
Salt Lake City, Utah 84180-1203

RE: Water Quality Degradation/Diversion Ditch

Dear Wayne:

The issue of runoff water flowing over the mine area is an issue we have spent much time trying to resolve. The construction of the dam and water system was successful initially but long term the system failed and compounded our problems. We believe that a skimming and ponding effort doesn't solve our long term problem of water in the mine area.

I have been in contact with Aztec Pipe in Vernal and Amcor in Salt Lake and with their help developed a plan that should insure success of a water delivery system and eliminate concern of water in the mine and water quality degradation.

We propose that the present dam area be cleaned and a diversion ditch be channeled. The diversion ditch would cover approximately 10 X 5 feet and would be lined with clay and cobble sized rock (rip-rap). At the end of the ditch a corrugated steel floodgate would be installed to capture water from the ditch flowing through a 10 inch corrugated pipe attached to the floodgate and then into a 6 inch PVC pipe that would extend above ground for a distance of approximately 400 feet. The water runoff would then discharge into the natural drainage below the mine area.

This plan would eliminate any dams and would carry water past the mine site without water quality degradation. We would enact this plan prior to any additional mining on the property.

I am enclosing diagrams of the floodgate proposed for use. Should you have any question regarding this plan, then phone me or Sam Arentz at the above phone number.

Sincerely,



Mark F. Lindsey  
Secretary

*we've this?*



**AMCOR** Inc.P.O. Box 868  
Bountiful, Ut 84011

Tel: 801-298-7628

Fax: 801-292-8821

To: Mark Lindberg Company: Native AsphaltFrom: Bob JolleyDate: 3-16-92Subject: Corrugated Steel Pipe + Headgates

## MESSAGE:

We will have a TRUCK in the Vernal and  
 Uintah County Area - Week of 3-23-92  
 Please let us know if we can help you.

THANKS-

Bob Jolley

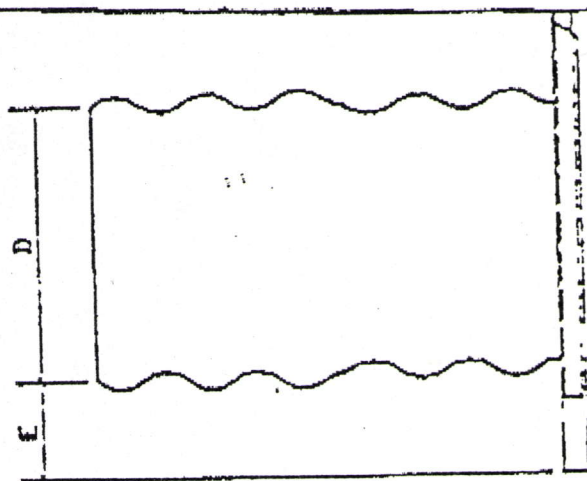
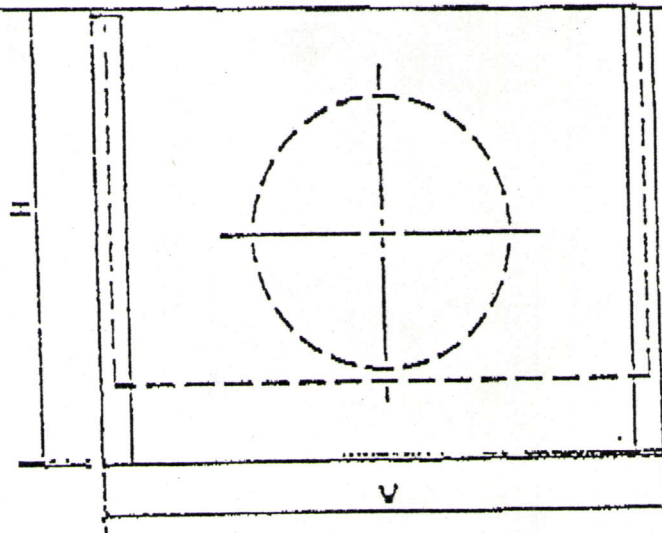
PAGES TO FOLLOW

3

FAX MESSAGE

FAX MESSAGE

FAX MESSAGE

SIDE VIEWFRONT VIEW

PROJECT

DRAWN	DATE	PART	SHEET OF	SCALE	REV.
VT/ACG	3/16/92		1		

PROJECT CONTRACTOR

GALVANIZED HANDPULL HEADGATES  
WITH PIPE ATTACHED

PROJECT LOCATION	SCALE	NO.	NO.	DWG. NO.	REV.
				3-0-92	

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## Section II—CSP COUPLING SYSTEMS

### Field Joints for Corrugated Steel Pipe

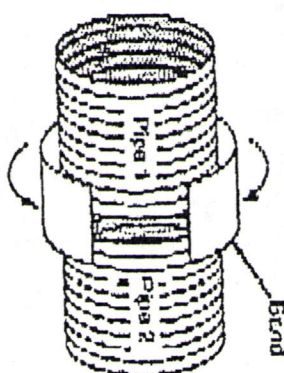
The functional requirements for pipe joints are specified in the ASHTO Bridge Design Specification, Section 2.21.1. The design of field joints using these criteria is covered in Chapter 6.

A wide variety of pipe joints are available for field connecting lengths of corrugated steel pipe. The following drawings illustrate and define the standard joints which are tabulated in Table 1-10.

#### CSP FIELD JOINTS

##### Type—Band Coupling

Typical Band Coupling



1. The steel common CSP joint uses a band around the pipe joint.
2. The band is drawn and secured on the pipe by connecting devices.
3. The pipe ends may be identical to the rest of the pipe to which they are joined. In the case of helical pipe, the pipe ends at joints may be reformed to an annular corrugation or flange (reformed end).
4. Gaskets of three types are used according to band types: o-ring, sleeve type or mastic.

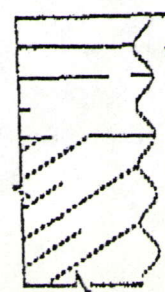
Table 1-10

Type of Band	Section	Bands	Screw Lock	Seals		Pipe End		
				O-ring	Sleeve	Reformed	Flange	Flange
Universal		X	X	X	X	X	X	X
Corrugated		X	X	X	X	X	X	X
Helical		X	X	X	X	X	X	X
Channel		X	X	X	X	X	X	X
Flat		X	X	X	X	X	X	X

#### FIELD JOINTS



Reformed Pipe End



Reformed Pipe End with Flange

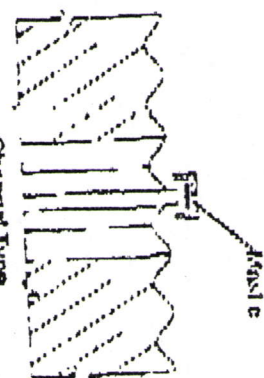
##### Standard CSP Band Types



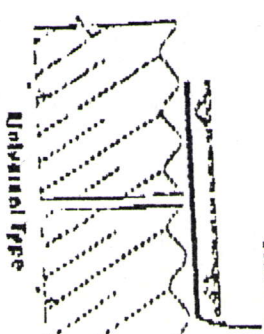
Plugger Type



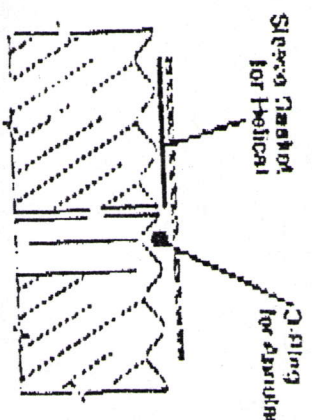
Corrugated



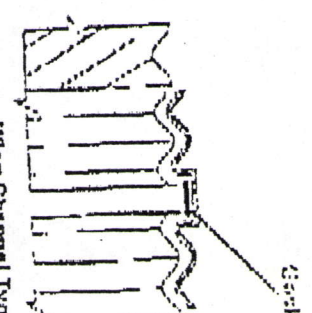
Mastic



Sleeve Gasket



Sleeve Gasket for Helical



Wing Channel Type

Flat Type